



Serving our customers

Owners Dam Safety Program

2022

Hydro-Electric Developments (HED)

4 FERC Projects

7 HED

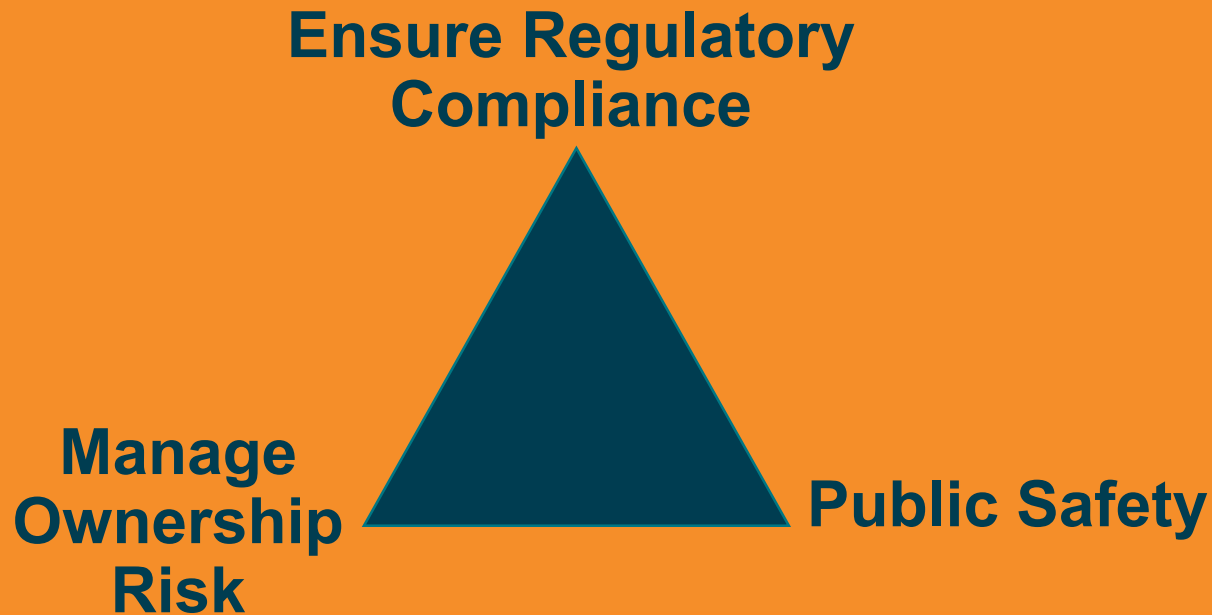
11 Individual Structures



Generation's Mission:

To create clean, reliable, marketable energy while ensuring stewardship of our resources.

Program Objectives



Dam Safety Team



PUB's Role in Dam Safety is defined in the FERC-required Owners Dam Safety Program

“Support the Dam Safety Program by providing budgetary and personnel resources required to ensure Regulatory Compliance and Public Safety.”

Program Objectives

Ensure Regulatory Compliance

Manage
Ownership
Risk



Public Safety

Washington State DOE
WAC Chapter 173 – 175



Federal Energy Regulatory Commission

16 US Code Chapter 12 Subchapter 1 (Federal Power Act)

CFR Title 18 (Conservation of Power & Water Resources)

Chapter 1 (FERC)

Subchapter B (Parts 4 – 50)

Part 12 (Safety)



Regulatory Drivers

FERC



Industries &
Data



Public
Participation



Enforcement
& Legal



News &
Events



About



FERC Online

Hydropower

Overview

Licensing

Administration and
Compliance

Dam Safety and Inspections

Regulations,
Guidelines & Manuals

Meetings, Workshops
& Conferences

Initiatives

Risk-Informed
Decision Making
(RIDM)

Security – Cyber &
Physical

Case Histories

[HOME](#) > DAM SAFETY AND INSPECTIONS

Dam Safety and Inspections



- 2022 Annual Letter to Licensees and Exemtees - Reminder of Responsibilities
 - [Annual Letter](#)
 - [Reminder of Responsibilities](#)
- [Sanford, Secord and Smallwood Dams](#)
- [Anderson Dam](#)
- [Oroville Dam Service Spillway \(P-2100\)](#)

Regulations, Guidelines, and Manuals

- [18 CFR Part 12 - Safety of Water Power Projects and Project Works \(Effective April 11, 2022\)](#)
- [18 CFR Part 12 - Safety of Water Power Projects and Project Works \(Pre April 11, 2022\)](#)
- [Engineering Guidelines for the Evaluation of Hydropower Projects](#)
- [Emergency Action Plan \(EAP\) Program](#)
- [Security Program for Hydropower Projects Revision 3](#)

Quick Links

- [Regional Office Boundary Map](#)
- [Hydropower Filing Guide](#)
- [Enforcement Guideline](#)
- [Regional Engineer Contacts](#)

Contact Information

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Director

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Five-Year Independent Consultant Part 12D Inspection
Five-Year Spillgate full travel demonstration
Five-year Owners Dam Safety Program External Audit
Five-Year Emergency Action Plan Exercise
Ten-Year Penstock Inspection
Ten-Year Hands-on Spillgate Inspection

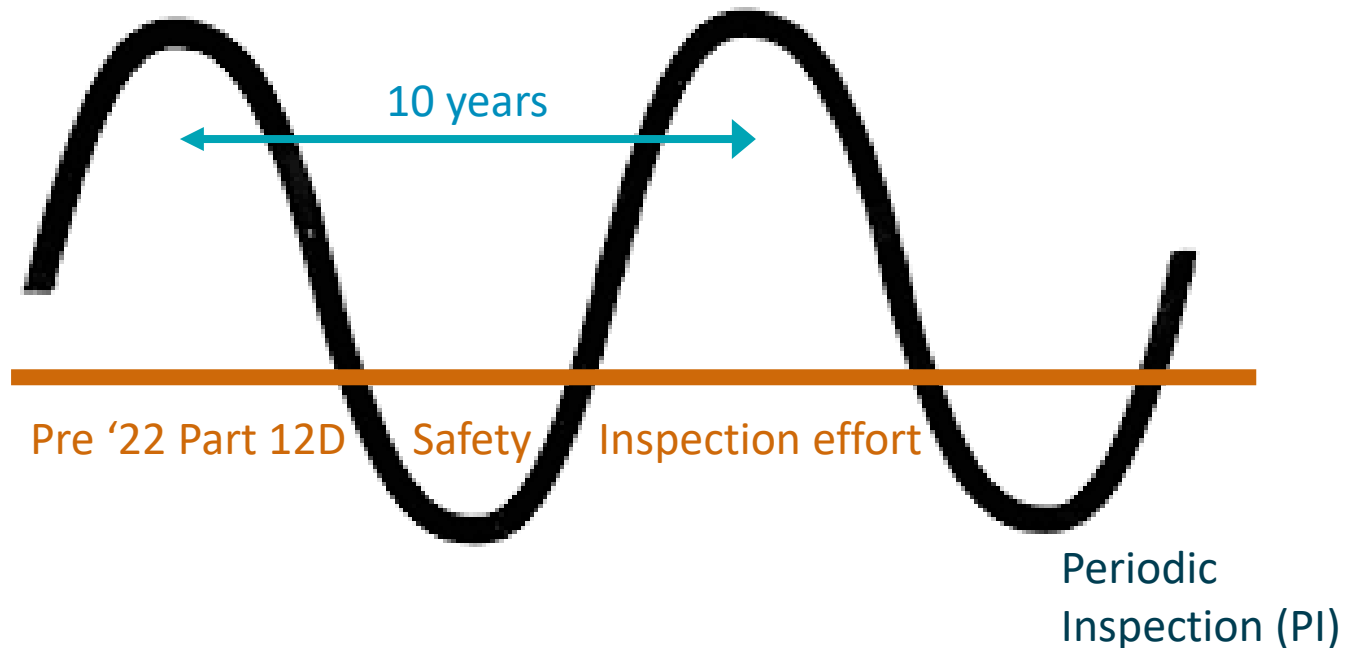
Annual Safety Inspection
Annual Spillgate and Emergency Generator Test
Annual Owners Dam Safety Program Update
Annual Surveillance and Monitoring Report
Annual Emergency Action Plan Update
Annual Public Safety Plan Update
Annual Cyber and Physical Security Plan Update

Capital Investment Project submittals
Public Safety/Project Conditions Reporting

Dam Performance and Safety Studies and Analyses

Independent Consultant Part 12D Inspection

Comprehensive
Assessment (CA)



Program Objectives

Ensure Regulatory
Compliance

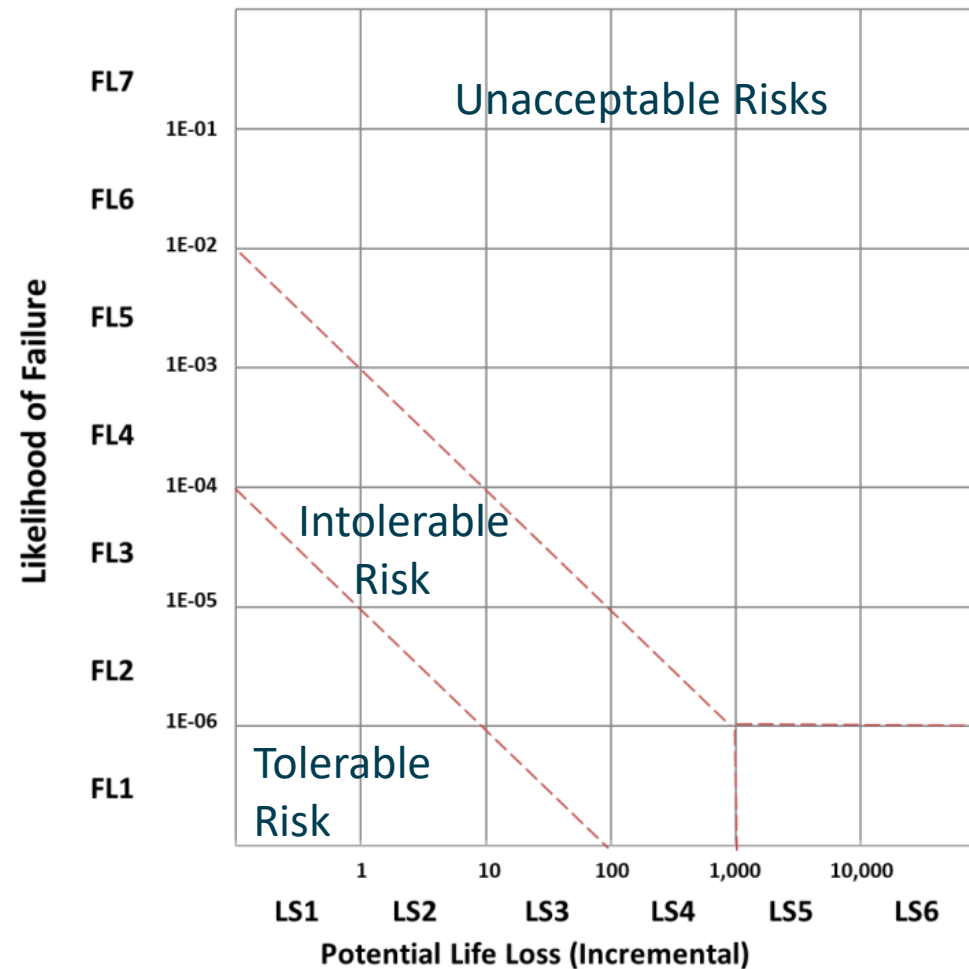
Manage
Ownership
Risk



Public Safety

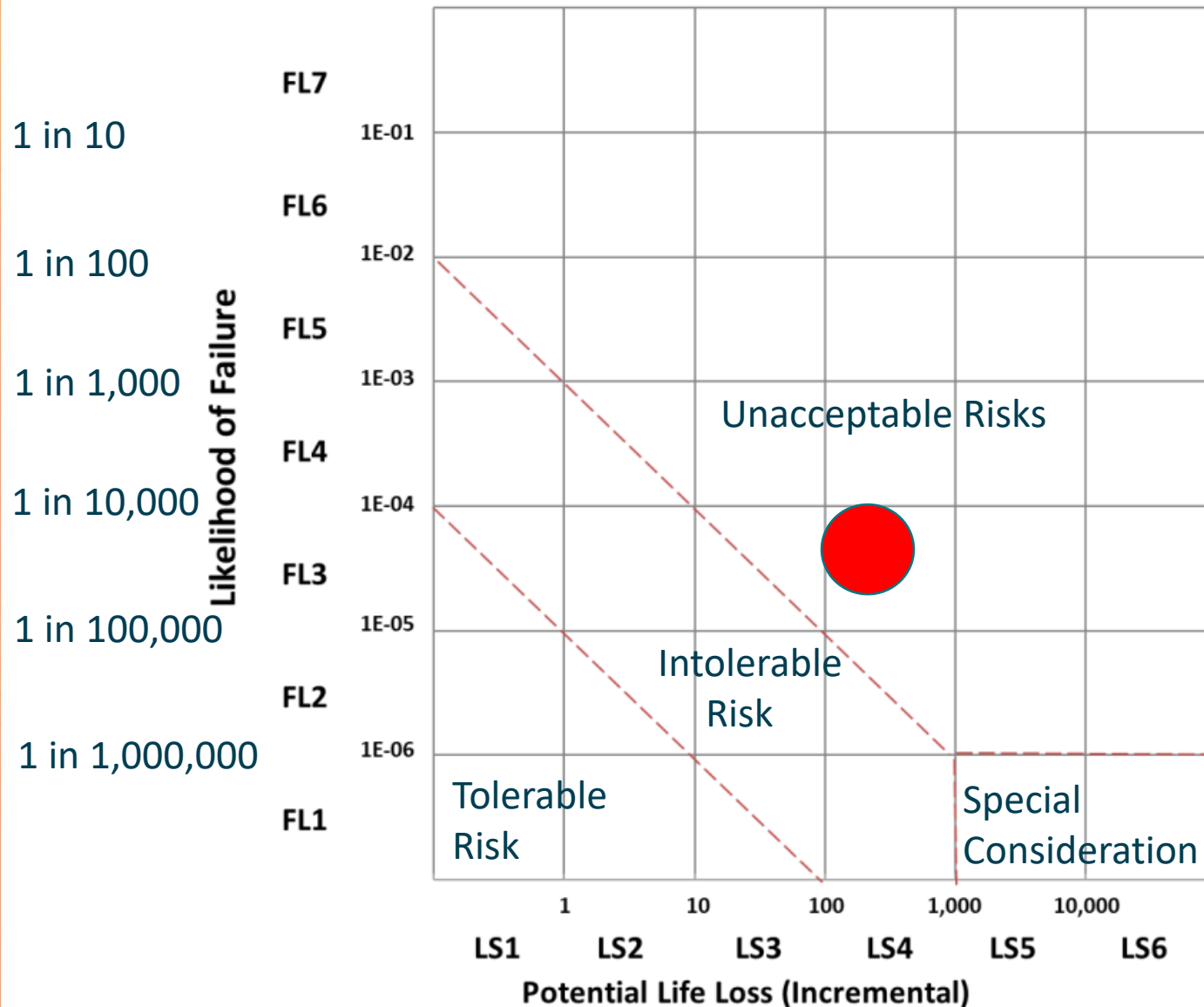
FERC Risk Identification

1 in 10
1 in 100
1 in 1,000
1 in 10,000
1 in 100,000
1 in 1,000,000



FERC Risk Chart and Consequence definition.

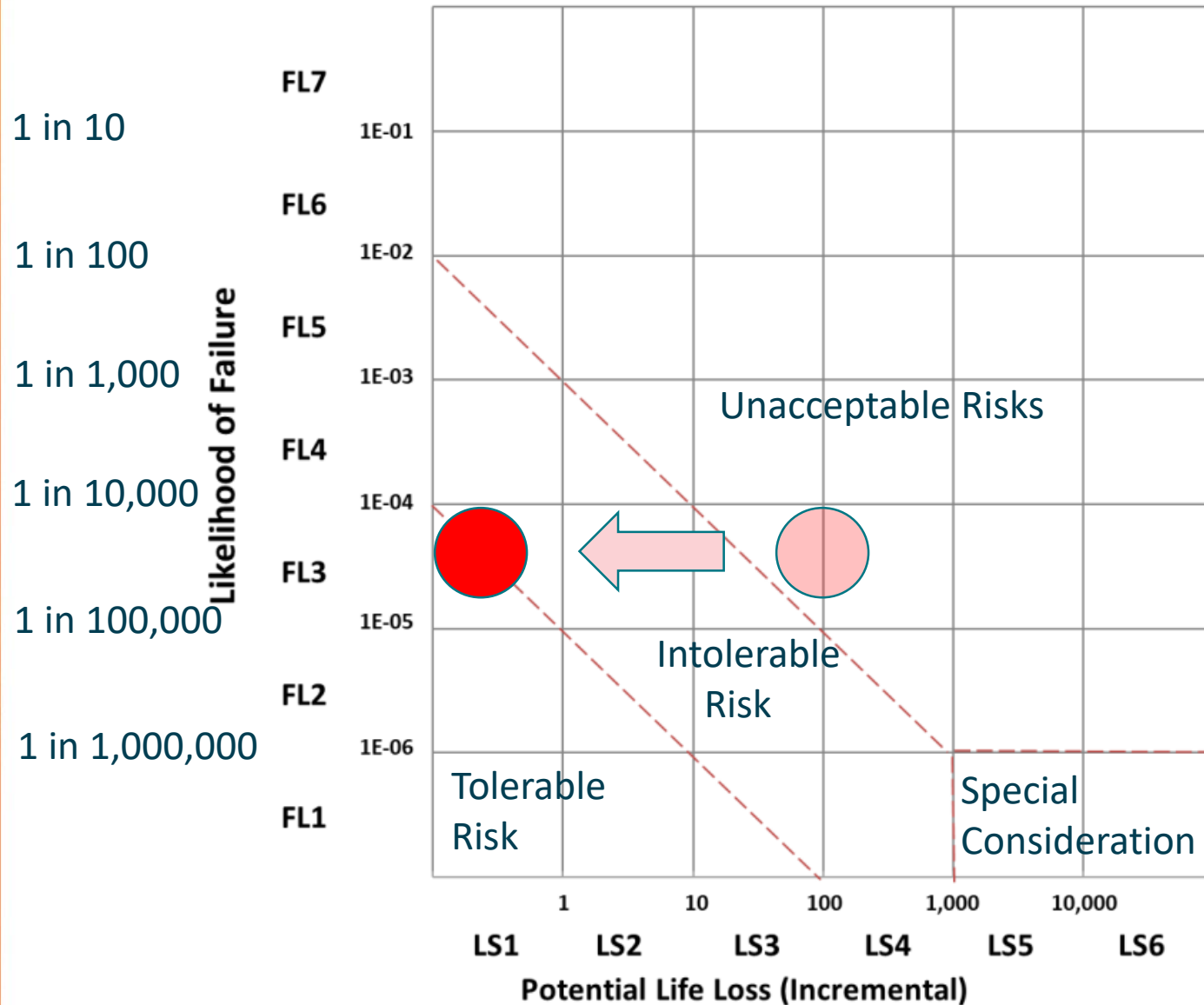
Risk Plotting



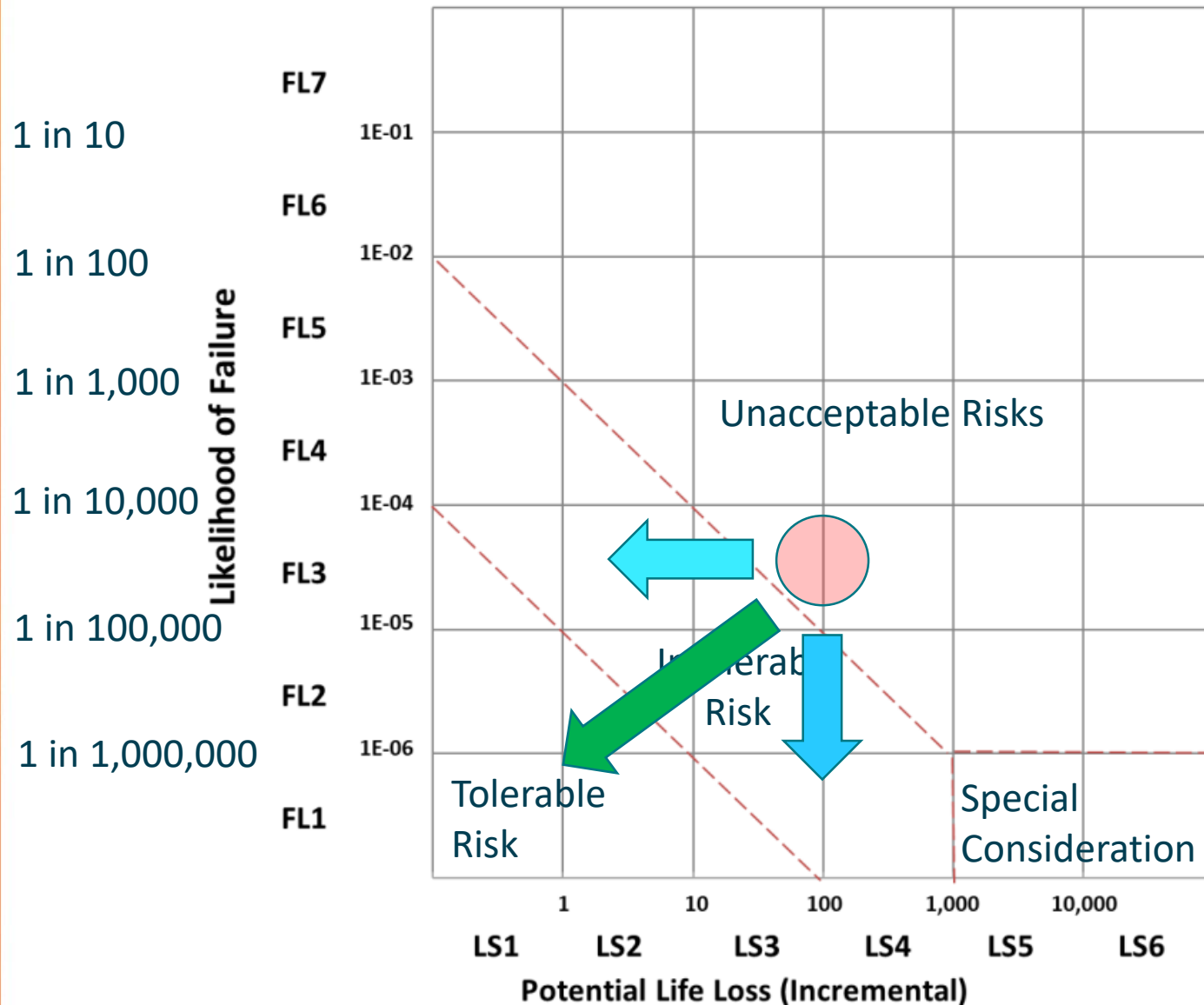
Mossyrock Seismic



Mossyrock Short-Term Mitigation



Mossyrock Seismic Remediation





Wynoochee Seismic



Program Objectives

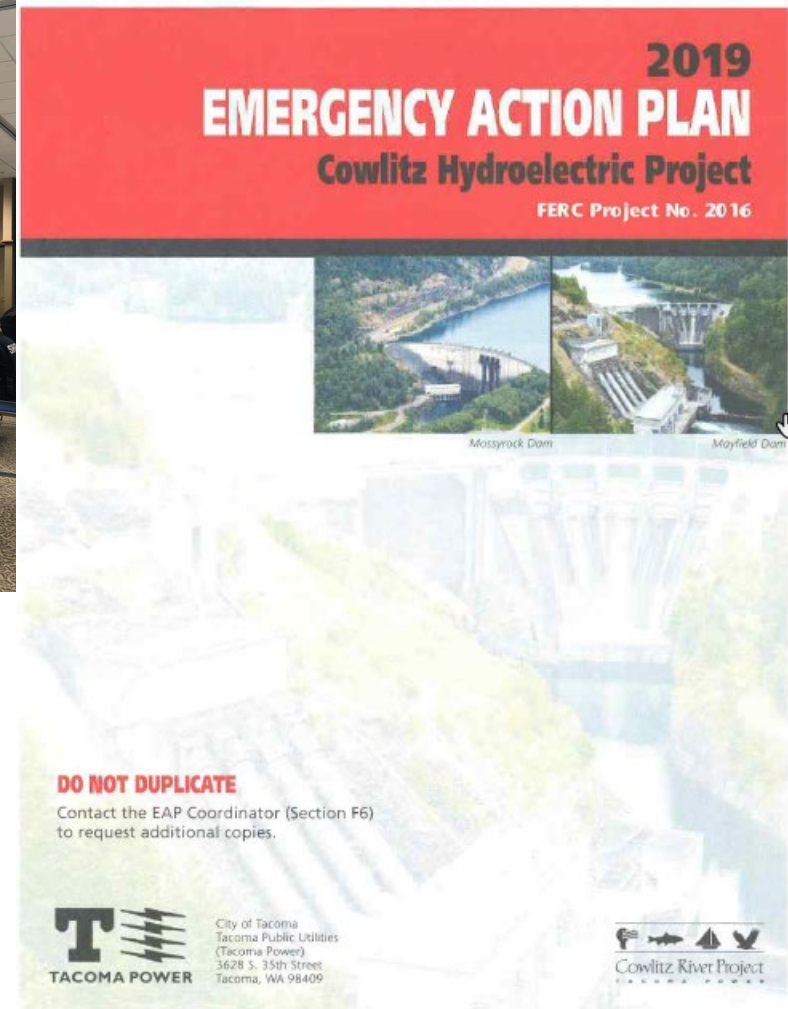


Safety & Early Warning



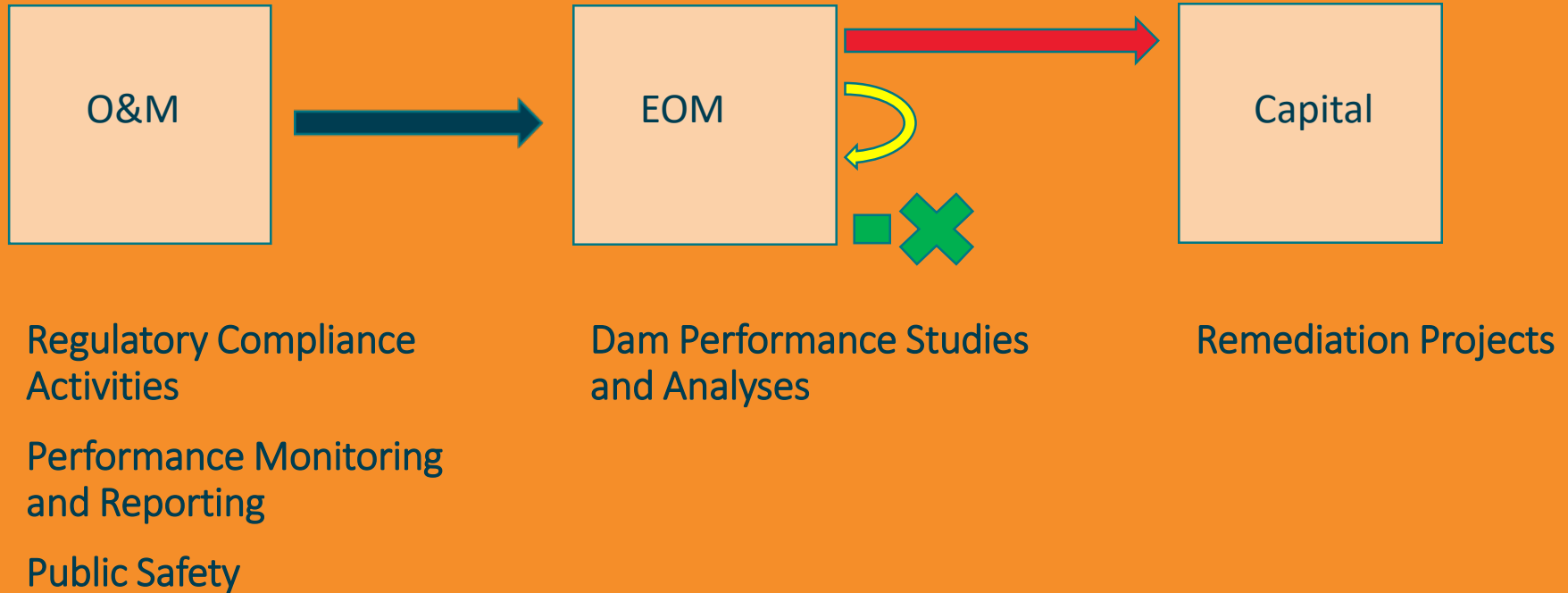
Emergency Action Plan Exercises

TACOMA POWER
TACOMA PUBLIC UTILITIES



This document was prepared pursuant to RCW 42.56.420 and is exempt from disclosure.

Program Deliverables & Budgets

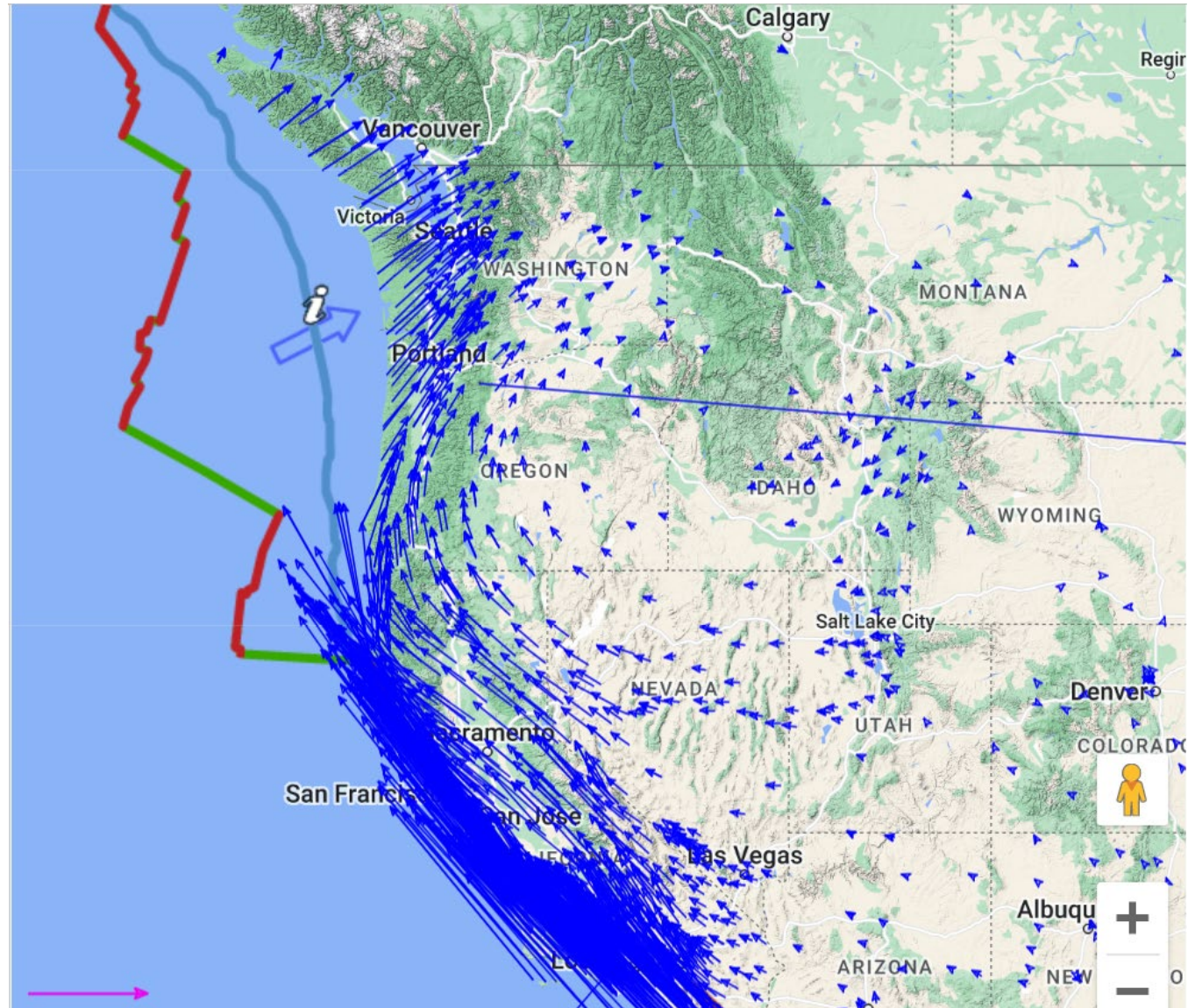


Industry Outreach

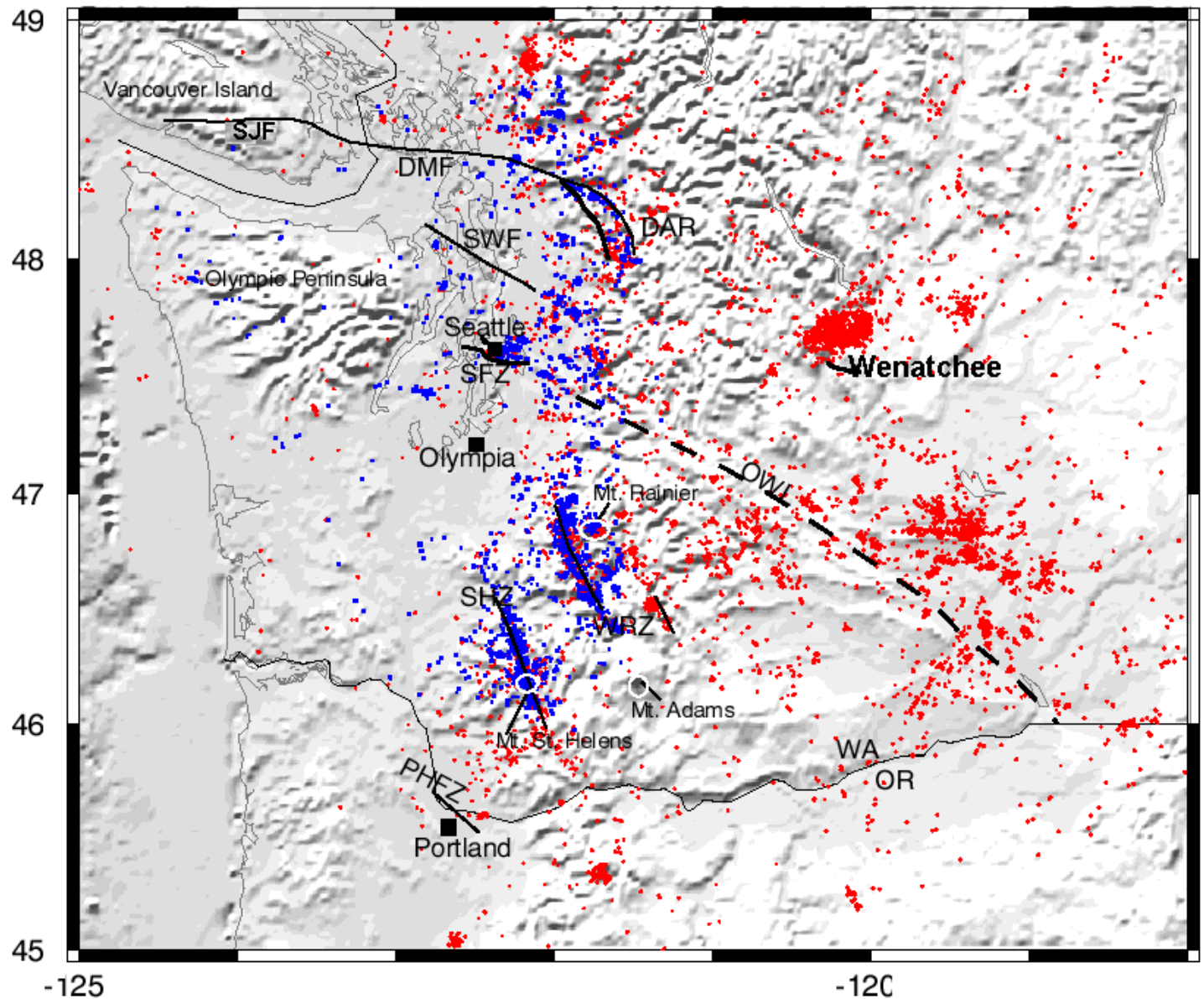
Major Challenges

External and Internal

Geographic Movement



Seismicity



Compliance Activities per HED

Five-Year Independent Consultant Part 12D Inspection

Five-Year Spillgate full travel demonstration

Five-year Owners Dam Safety Program External Audit

Five-Year Emergency Action Plan Exercise

Ten-Year Penstock Inspection

Ten-Year Hands-on Spillgate Inspection

O&M

EO&M

Annual Safety Inspection

Annual Spillgate and Emergency Generator Test

Annual Owners Dam Safety Program Update

Annual Surveillance and Monitoring Report

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Questions